

Appl. No. 09/715,717
Amdt. Dated November 23, 2004
Reply to Office action of August 25, 2004
Attorney Docket No. P13910-US1
EUS/J/P/04-3279

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-28 (Canceled)

29. (New) An arrangement for obtaining payment data from a wireless mobile terminal, comprising:

a short range wireless system comprising:

an access unit having a first coverage area for establishing an initial connection with the wireless mobile terminal; and

a payment extraction unit having a second coverage area for extracting payment from an account associated with the wireless mobile terminal, wherein the initial connection is transferred from the access unit to the payment extraction unit as the wireless mobile terminal moves from the first coverage area into the second coverage area and the payment extraction unit obtains payment data from the wireless mobile terminal

30. (New) The arrangement of Claim 29, wherein the first coverage area is larger than the second coverage area.

31. (New) The arrangement of Claim 29, wherein the payment extraction unit is one of a plurality of payment extraction units wherein each payment extraction unit maintains a coverage area that will accept a transfer of the initial connection from the first coverage area.

32. (New) The arrangement of Claim 29, wherein the access unit and the payment extraction unit both utilize Bluetooth communications protocol.

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33. (New) The arrangement of Claim 29, further comprising
a control server for transferring the wireless mobile terminal's initial connection between the first coverage area and the second coverage area, wherein the control server comprises:

a database for storing information received from the access unit, the payment extraction unit and an intermediate unit, wherein the information received from the access unit includes, an address of the wireless mobile terminal, a clock offset and a frequency hop scheme; and
means for connecting to and controlling the access unit, the payment extraction unit and an intermediate unit having a third coverage area.

34. (New) The arrangement of Claim 33, further comprises means for sending notification to the payment extraction unit from the control server when the wireless mobile terminal initial connection is transferred to the intermediate unit.

35. (New) The arrangement of Claim 33, wherein the intermediate unit is a low power unit and the third coverage area overlaps both the first and second coverage areas, and when the wireless mobile terminal enters the third coverage area and the wireless mobile terminal initial connection is transferred to the intermediate unit, the intermediate unit notifies the control server of the transfer of the wireless mobile terminal initial connection and the control server notifies the payment extraction unit of the transfer and includes the wireless mobile terminal address.

36. (New) The arrangement of Claim 29, wherein a connection establishment period between the payment extraction unit and the wireless mobile terminal is shortened by transferring the initial connection to the payment extraction unit and the time required for retrieving the payment data is minimized.

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37. (New) The arrangement of Claim 29, wherein the payment data comprises verification data of a transportation system ticket.

38. (New) The arrangement of Claim 29, wherein the payment data comprises identification data of a user of the mobile terminal.

39. (New) A method for obtaining payment data from a wireless mobile terminal, comprising the steps of:

utilizing a short range wireless system for connecting to the wireless mobile terminal

establishing an initial connection between an access unit and the wireless mobile terminal in a first coverage area;

transferring the initial connection from the access unit to a payment extraction unit having a second coverage area as the wireless mobile terminal moves from the first coverage area into the second coverage area, the payment extraction unit obtaining payment data from the wireless mobile terminal; and

extracting payment from an account associated with the wireless mobile terminal.

40. (New) The method of Claim 39, wherein the first coverage area is larger than the second coverage area.

41. (New) The method of Claim 39, wherein the payment extraction unit is one of a plurality of payment extraction units wherein each payment extraction unit maintains a coverage area that will accept a transfer of the initial connection from the first coverage area.

42. (New) The method of Claim 39, further comprising the access unit and the payment extraction unit both utilizing Bluetooth communications protocol.

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43. (New) The method of Claim 39, further comprising:

transferring the wireless mobile terminal's initial connection between the first coverage area and the second coverage area;

storing information received from the access unit, the payment extraction unit and an intermediate unit, wherein the information received from the access unit includes, an address of the wireless mobile terminal, a clock offset and a frequency hop scheme; and

connecting to and controlling the access unit, the payment extraction unit and an intermediate unit having a third coverage area.

44. (New) The method of Claim 43, further comprising:

sending notification to the payment extraction unit from the control server when the wireless mobile terminal's initial connection is transferred to the intermediate unit.

45. (New) The method of Claim 43, further comprising:

transferring the wireless mobile terminal to the intermediate unit when the wireless mobile terminal enters the third coverage area, wherein the intermediate unit is a low power unit and the third coverage area overlaps both the first and second coverage areas; and

responsive to connecting with the wireless mobile unit, the intermediate unit notifying the control server of the transfer of the wireless mobile terminal's initial connection and the control server in turn notifying the payment extraction unit of the transfer and including the wireless mobile terminal address.

46. (New) The method of Claim 39, wherein transferring the initial connection to the payment extraction unit, a connection establishment period between the payment extraction unit and the wireless mobile terminal is shortened and the time required for retrieving the payment data is minimized.

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47. (New) The method of Claim 39, wherein the payment data comprises verification data of a transportation system ticket.

48. (New) The method of Claim 39, wherein the payment data comprises identification data of a user of the mobile terminal.